



In this worksheet you will practise expanding expressions using the distributive law and multiplying polynomials. Read each question carefully and show all your working.

Easy Questions

1. Expand $3(x + 2)$.
2. Expand $-2(x - 4)$.
3. Expand $5(2a + 3)$.
4. Expand $-4(-x + 5)$.
5. Expand and simplify $2(x + 3) + 3(x - 2)$.

Intermediate Questions

6. Expand and simplify $2x(3x + 4) - 5(x - 2)$.
7. Expand $(x + 2)(3x + 4)$.
8. Expand $(2x + 3)(x + 5)$.
9. Expand $3(x + 4) + 2(x - 1)$.
10. Expand $4(2x + 3) - 3(x - 2)$.
11. Expand $(2x + 3)(x + 4) + 5x$.
12. Expand $2(3x + 4) + 3(2x - 1)$.
13. Expand $5(x + 2) - 2(3x - 4)$.
14. Expand $x(2x + 3) + 3(x + 4)$.
15. Expand $2(x + 3) + 3(2x - 4)$.
16. Expand $3x(2x + 5) - 2(4x - 3)$.
17. Expand $(x + 2)[3x + 4 + x]$.
18. Expand $(2x + 1)(3x + 2) + x$.
19. Expand $2(x + 3) - 4(2x - 5)$.
20. Expand $(3x - 2)(2x + 4)$.

Hard Questions

21. Expand $(2x + 3)(3x + 4) - x(4x - 5)$.
22. Expand $2(3x + 2)(x + 4) - 3x(2x - 1)$.
23. Expand $(x + 2)(2x + 3) + (x - 1)(3x + 4)$.
24. Expand $2x[3(x + 4) - 2(x - 5)]$.
25. Expand $(3x + 2)[2(x + 3) - x]$.
26. Expand $-2(x - 3)(3x + 2) + 4x(x + 5)$.
27. Expand $(2x - 3)(x + 4) + (3x + 1)(x - 2)$.
28. Expand $3[2(x + 4) - (x - 3)] + 2x(3x + 1)$.
29. Expand $x(2x + 3) - (x + 5)(x - 2)$.
30. Expand $(2x + 3)(3x - 1) + (x - 4)(2x + 5)$.